



# CUBEDRIVE

## STANDARDIZED PROPULSION MODULES

### Advantages:

#### Full system

- Thrusters
- Tanks
- Valves
- Control electronics

#### Rideshare friendly

Flown on Falcon 9, Vega, and Electron rockets, the CubeDrive system is friendly for a variety of launchers.

#### High performance, low cost

Nitrous oxide (N<sub>2</sub>O) and Propylene (C<sub>3</sub>H<sub>6</sub>). Self-pressurizing: no pumps or pressurants. REACH compliant.

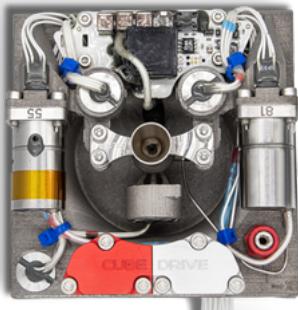
#### Short lead times

Standardized configuration for a shorter lead time. Get it in your cleanroom in less than a year!

## 0.8U Module

## 2U Module

<b>Status</b>	In space	In qualification
<b>Thrusters</b>		1x B1 thruster
<b>Thrust</b>		0.44 to 1.15 N (0.09 to 0.26 lbf)
<b>Minimum impulse bit</b>		68 mN.s (bi-propellant) 0.48 mN.s (cold gas)
<b>Total impulse</b>	400 N.s (90 lbf.s)	1500 N.s (337 lbf.s)
<b>Mass (dry / wet)</b>	1051 g / 1250 g (2.32 lbs / 2.76 lbs)	2000 g / 2750 g (4.41 lbs / 6.06 lbs)
<b>Dimensions</b>	80 x 96 x 96 mm (3.15 x 3.78 x 3.78 in)	200 x 96 x 96 mm (7.87 x 3.78 x 3.78 in)
<b>Turn-key systems</b>	All systems include thrusters, tanks, tubing, health monitoring, control electronics, and structures	
<b>Propellants</b>	Nitrous oxide (N2O) and propylene (C3H6)	
<b>Tanks</b>	Type 1: All metallic. 3D printed using Inconel	
<b>Data</b>	CAN bus (other data protocols available on request)	
<b>Supply voltage</b>	Digital: 5 to 5.2 VDC Actuators: 14 VDC unregulated	
<b>Propellant loading</b>	At the launch site or integration facilities by Dawn	



TRUSTED BY



ZENTRUM  
FÜR  
TELEMATIK



+ 6  
Undisclosed  
Customers